Message

From: Thomas, Russell [Thomas.Russell@epa.gov]

Sent: 10/14/2020 11:30:06 PM

To: Patlewicz, Grace [Patlewicz.Grace@epa.gov]

Subject: RE: Bullet points - starter for ten for the Class Topic discussion Attachments: NASEM_Session 5_Class Approaches_10_13_20_v4.pptx

I tweaked them a bit.

From: Patlewicz, Grace <Patlewicz.Grace@epa.gov>
Sent: Wednesday, October 14, 2020 3:15 PM
To: Thomas, Russell <Thomas.Russell@epa.gov>

Subject: Bullet points - starter for ten for the Class Topic discussion

- There continues to be an evolving definition of what constitutes a PFAS. That said, there has been progress in capturing the scope and breadth of the PFAS Landscape not only what PFAS are within the purview of the regulatory and international community (e.g. US Agencies, OECD), identified in the environment as well as what are likely PFAS candidates based on a set of substructural filters developed with community input. The EPA has made available a number of PFAS lists through its CompTox Chemistry Dashboard.
- Multiple approaches have been proposed based on structural considerations as well as various properties (e.g., persistence, mobility, bioaccumulation), exposure, and effects.
- Progress has been made in attempting to create objective reproducible structural groups; notable
 efforts include Markush structural representations (these are used to indicate a group of related
 chemical compounds see https://comptox.epa.gov/dashboard/chemical_lists/EPAPFASCAT) as
 well as through using chemical fingerprints

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